

8

DATA STORING PORTION

FIG. 1 POST-UPDATING FILE RESTORING PORTION DIFFERENTIAL DATA PRODUCING DEVICE CONTROL PORTION DIFFERENTIAL DATA PRODUCING PORTION WIRELESS COMMUNICATION NETWORK WIRELESS COMMUNICATION PORTION MOBILE TERMINAL DEVICE

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* 6

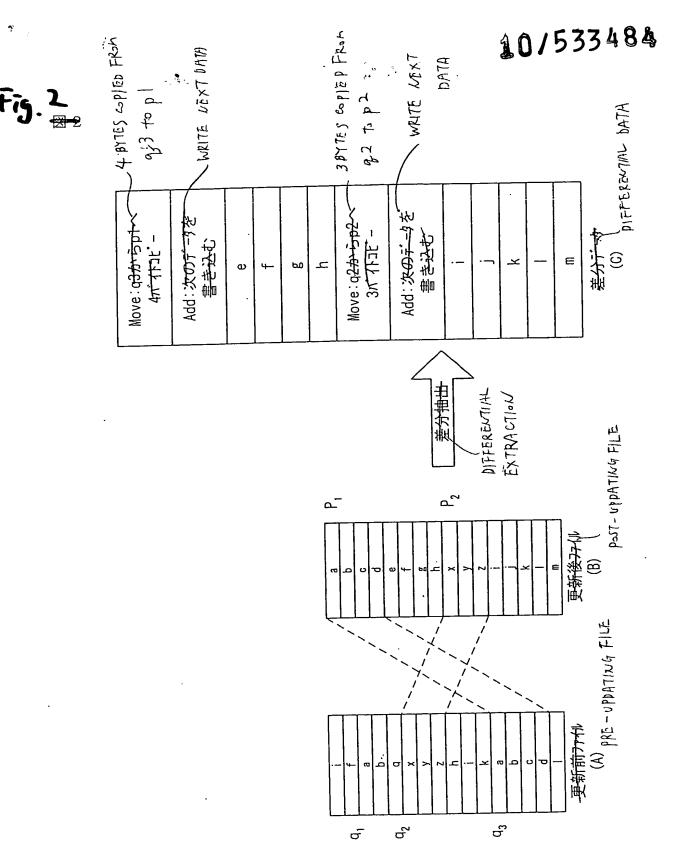
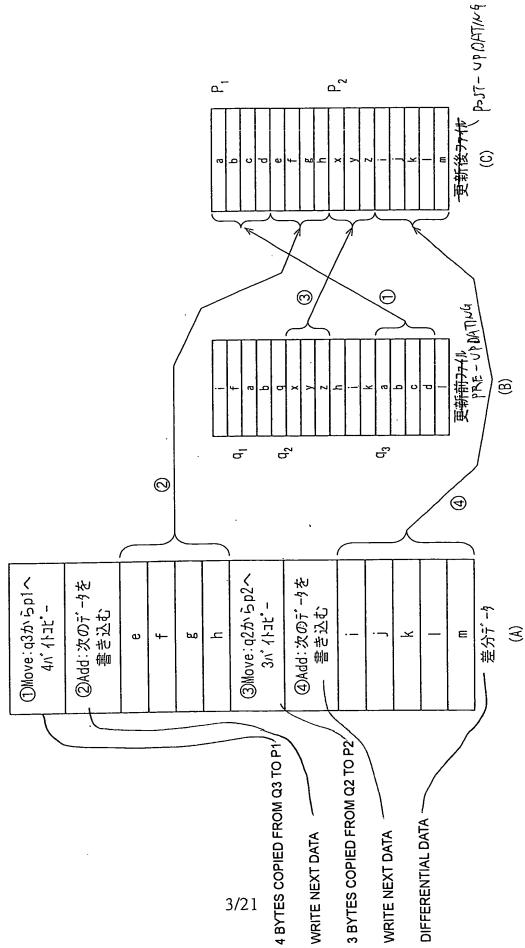
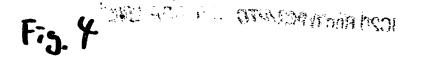


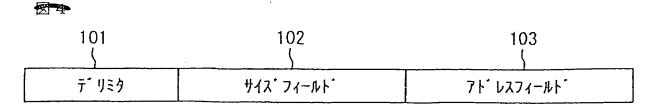
Fig. 3

50

図 3







101 DELIMITER

102 SIZE FIELD

103 ADDRESS FIELD

Fig. 5

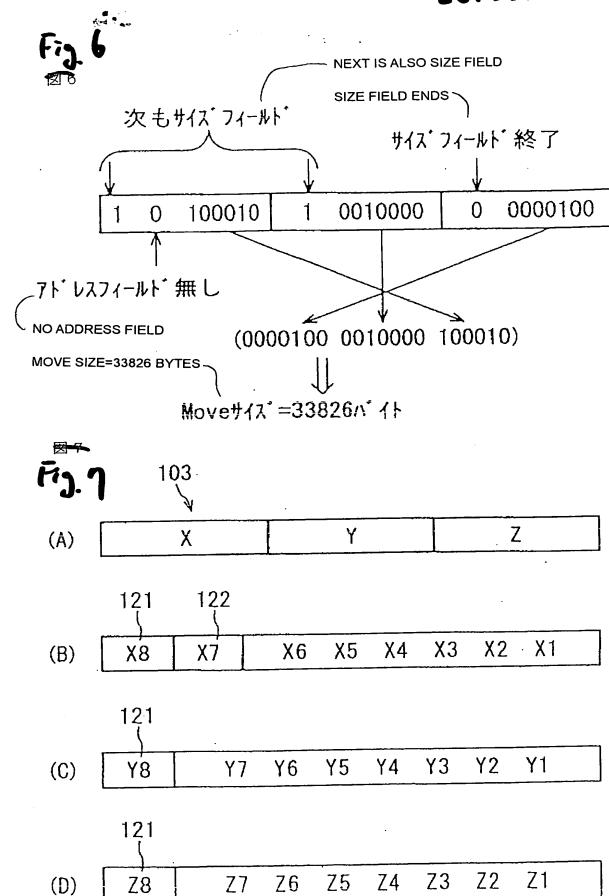
102

(A) A B C

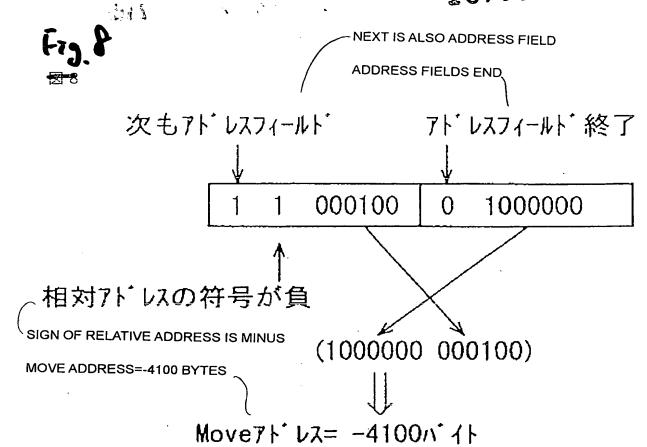
111 112 (B) A8 A7 A6 A5 A4 A3 A2 A1

(C) B8 B7 B6 B5 B4 B3 B2 B1

(D) C8 C7 C6 C5 C4 C3 C2 C1



(14)

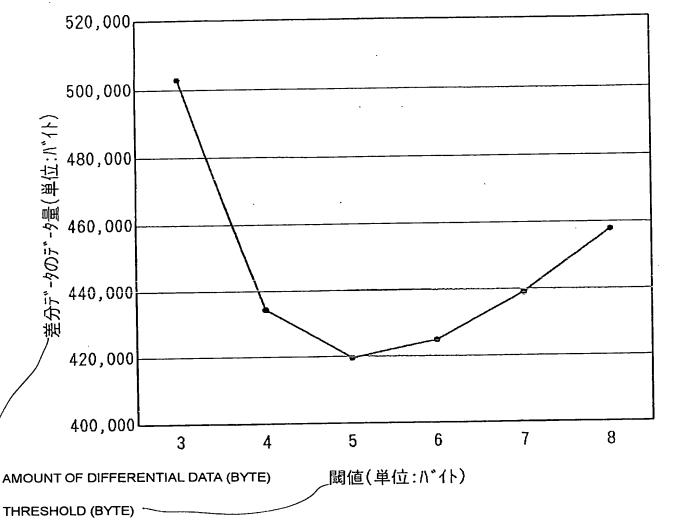


5)

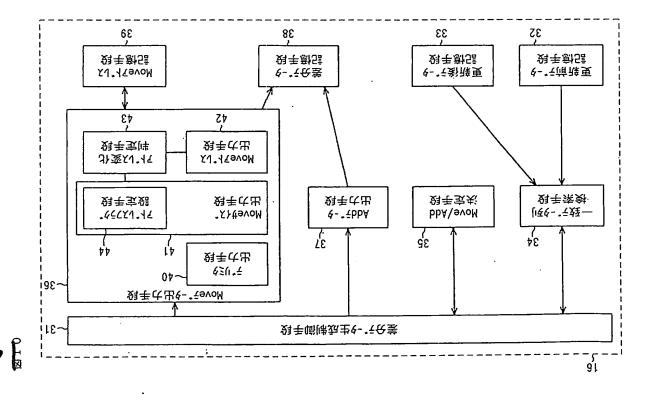
Fig. 9

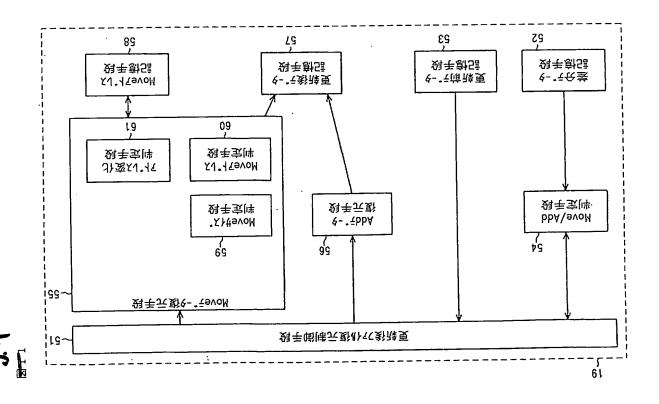
CHANGE IN AMOUNT OF DIFFERENTIAL DATA RELATIVE TO CHANGE IN THRESHOLD

閾値を変化させたときの差分データのデータ量の変化



DIFFERENTIAL DATA PRODUCING CONTROL UNIT ADDRESS CHANGE DETERMINING UNIT MATCHING DATA STRING SEARCH UNIT POST-UPDATING DATA STORING UNIT PRE-UPDATING DATA STORING UNIT DIFFERENTIAL DATA STORING UNIT MOVE ADDRESS STORING UNIT MOVE/ADD DETERMINING UNIT MOVE ADDRESS OUTPUT UNIT ADDRESS FLAG SETTING UNIT MOVE DATA OUTPUT UNIT DELIMITER OUTPUT UNIT MOVE SIZE OUTPUT UNIT ADD DATA OUTPUT UNIT 矣 42 43





. FIG 12 Start S101 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE

S102 ANY MATCHING DATA STRING?

MATCHING DATA LENGTH≥ THRESHOLD

S104 OUTPUT AS ADD

OUTPUT DELIMITER

S106 MOVE ADDRESS = PREVIOUS ONE?

S107 ADDRESS FLAG → 0 S108 OUTPUT MOVE SIZE

S109 ADDRESS FLAG → 1

S110 OUTPUT MOVE SIZE

S111 OUTPUT MOVE ADDRESS

S112 STORE PRESENT MOVE ADDRESS

ALL DATA PROCESSED?

Addとして出力 更新前ファイルの中から 一致するデータ列を検索 ~3101 ~S108 운 S103 \$105 7ドレスフラグを0にする 致データ列があった Moveサイズを出力 Move7ドレスカタク 前回と同じか デリジを出力 全デー終了 開始 談 一 Yes 🗸 Yes [~S109 ~S110 <u>S11</u> S S 今回のMove7ドレスを記憶 71. レスフラグ を11にする Move7ドレスを出力 Moveサイズを出力

S121 PRODUCE HASH TABLE

S122 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE

S123 SMALLER SIZE IF OUTPUT AS MOVE?

S124 OUTPUT AS MOVE

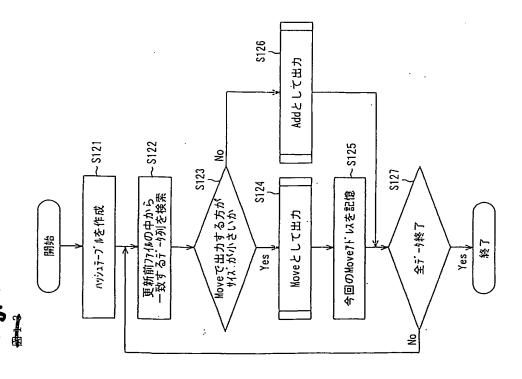
S125 STORE PRESENT MOVE ADDRESS

S126 OUTPUT AS ADD

S127 ALL DATA PROCESSED?

END

FIG 13



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FIG 14

OUTPUT AS MOVE

OUTPUT DELIMITER 0x0F S131

OUTPUT 1ST BYTE OF MOVE SIZE S132

NEXT BYTE TO BE USED FOR EXPRESSING MOVE SIZE? S133

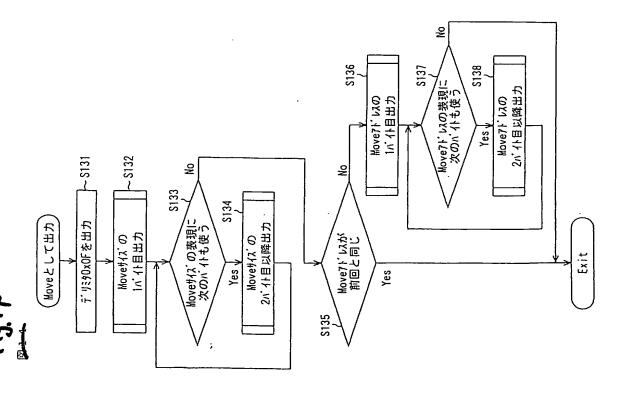
OUTPUT 2ND BYTE AND ON OF MOVE SIZE S134

MOVE ADDRESS = PREVIOUS ONE? S135

NEXT BYTE TO BE USED FOR EXPRESSING MOVE ADDRESS?

OUTPUT 1ST BYTE OF MOVE ADDRESS

OUTPUT 2ND BYTE AND ON OF MOVE ADDRESS S138



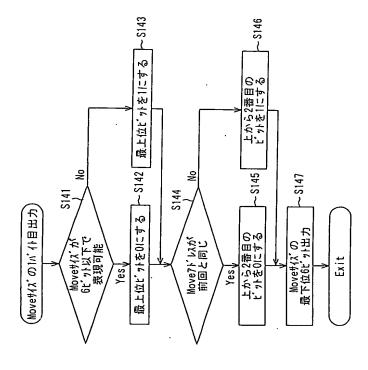
OUTPUT 1ST BYTE OF MOVE SIZE

MOVE SIZE CAN BE EXPRESSED BY 6 BITS OR LESS?

MSB → 0 MSB → 1

MOVE ADDRESS = PREVIOUS ONE? S144

2ND MSB \rightarrow 0 2ND MSB → 1 OUTPUT 6 LSB OF MOVE SIZE S147



180

FIG 16

OUTPUT 2ND BYTE AND ON OF MOVE SIZE

BITS YET TO BE OUTPUT OF MOVE SIZE 5 7 BITS? S151

MSB → 0 S152 MSB → 1 S153

OUTPUT 7 LSB AMONG BITS YET TO BE OUTPUT S154

187 S.

FIG 17

OUTPUT 1ST BYTE OF MOVE ADDRESS

ABSOLUTE VALUE OF ADDRESS CAN BE EXPRESSED BY 6 BITS OR LESS?

S161

MSB → 0 MSB → 1 S162

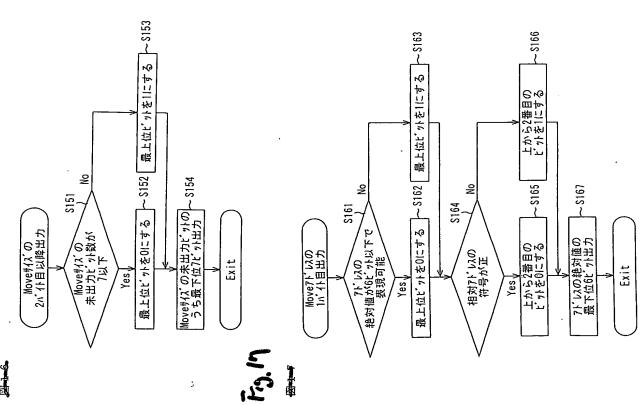
S163

SIGN OF RELATIVE ADDRESS = +? S164

2ND MSB → 0

2ND MSB → 1 **S166**

OUTPUT 6 LSB OF ABSOLUTE VALUE OF ADDRESS S167



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FIG 18

OUTPUT 2ND BYTE AND ON OF MOVE ADDRESS

71 BITS YET TO BE OUTPUT OF ABSOLUTE VALUE OF ADDRESS ≤ 7 BITS?

172 MSB → 0

.

113 MSB 11

OUTPUT 7 LSB AMONG BITS YET TO BE OUTPUT OF MOVE ADDRESS

1 OUTPUT BINARY DATA

OUTPUT AS ADD

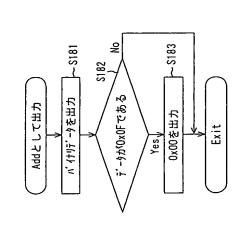
S181 OUTPUT BINA

DATA = 0x0F?

S182

S183 OUTPUT 0×00

FIG. 19



F3.19

Strain of the things will

START

S201 READ 1 BYTE AT BEGINNING

S202 READ BYTE = 0x0F7

S203 OUTPUT BYTE AS POST-UPDATING FILE DATA

S204 READ NEXT 1 BYTE

S205 READ BYTE = 0x007

S206 OUTPUT 0x0F AS POST-UPDATING FILE DATA

S208 DIFFERENTIAL DATA READ TO END?

S209 READ NEXT 1 BYTE

S209 READ NEXT 1 BYTE

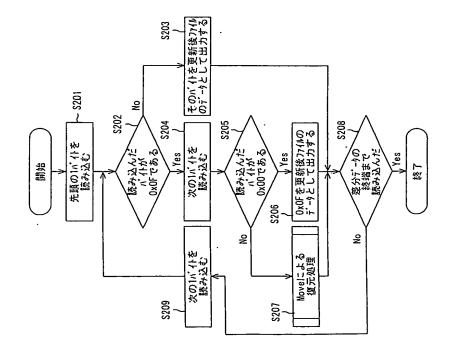


FIG. 21

RESTORING PROCESSING BY MOVE

11 2ND MSB = 0?

DETERMINE MOVE ADDRESS AS SAME VALUE AS PREVIOUS ONE

MOVE SIZE DETERMINING PROCESSING

MOVE ADDRESS DETERMINED?

15 READ NEXT BYTE

MOVE ADDRESS DETERMINING PROCESSING

217 COPY DATA STRING IN PRE-UPDATING FILE BASED ON DETERMINED MOVE

SIZE AND MOVE ADDRESS AND OUTPUT AS POST-UPDATING FILE DATA

STORE PRESENT MOVE ADDRESS

S218

~ S213 -5218決定したMove#イス、 Move7ドレスイニ基づき 更新前ファイルのデータ列を nピーし、更新後ファイルの データとして出力する S214 今回のMove7ドいを記憶 Moveによる復元処理 Move7ドレスを 前回と同じ値に決定 Move#47. 判定処理 Move7ドいを すでに決定した 上から2番目のじずかが0である。 Exit Yes ~S215 ~ S216 次のパイを読み込む Move7ドレス判定処理

MOVE SIZE DETERMINING PROCESSING

FIG 22

SET 6 LOW-ORDER BITS AS 6 LOW-ORDER BITS OF MOVE SIZE

MSB = 1? \$222

READ NEXT BYTE

ADD 7 LOW-ORDER BITS TO 7 HIGH-ORDER BITS OF MOVE SIZE

MOVE SIZE DETERMINED

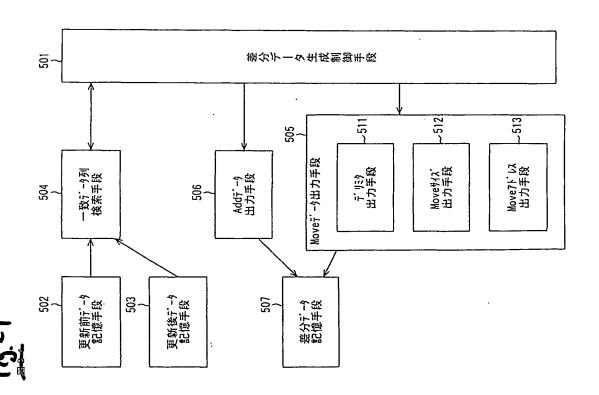
\$225

下位6t゙ットをMoveサイズの 下位6t゙ットとする 最上位だ 小が1である 次のバイを読み込む Moveサイズ 判定処理 · »卜をMoveサイス· 立了L· »·····························拉加 Moveサイス が決定 Exit Yes∫

Ø

 \sim S232 -S236 ~ \$234 ~\$237 **~** S238 下位6ピットを Move7ドレスの絶対値の 下位6ピットとする 下位で、小を Move7ド レスの絶対値の 上位7ビットに追加 最上位に、小が1である 次のバイを読み込む Move7ドレス判定処理 Move7ドレスの 符号を正にする 上から2番目の ビットが0である Move7+ レスが決定 Yes Exit ટ \$233 Move7ドレスの 符号を負にする

S501 DIFFERENTIAL DATA PRODUCING CONTROL UNIT
S502 PRE-UPDATING DATA STORING UNIT
S503 POST-UPDATING DATA STORING UNIT
S504 MATCHING DATA STRING SEARCH UNIT
S505 MOVE DATA OUTPUT UNIT
S506 ADD DATA OUTPUT UNIT
S507 DIFFERENTIAL DATA STORING UNIT
S511 MOVE SIZE OUTPUT UNIT
S513 MOVE ADDRESS OUTPUT UNIT



S501 SEARCH FOR MATCHING DATA STRING IN PRE-UPDATING FILE
S502 ANY MATCHING DATA STRING?
S503 OUTPUT DELIMITER
S504 OUTPUT MOVE SIZE
S505 OUTPUT MOVE ADDRESS
S506 OUTPUT AS ADD
S507 ALL DATA PROCESSED?

FIG. 25 START

